

Sequence Listing

<110> Zhang, Jingwu Z.
 Ho, Walter Kowk Keung
 Zhang, Dongqing
 Sun, Wei
 <120> T Cell Receptor CDR3 Sequence and Methods for Detecting and
 Treating Rheumatoid Arthritis
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Ser Gln Ala Asp Gly Thr His

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Ser Ser Gly Gly Ser Leu Phe
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Ser Trp Gly Gly

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Met	Gly	Pro	Gln	Leu	Leu	Gly	Tyr	Val	Val	Leu	Cys	Leu	Leu	Gly
				5					10					15
Ala	Gly	Pro	Leu	Glu	Ala	Gln	Val	Thr	Gln	Asn	Pro	Arg	Tyr	Leu
				20					25					30
Ile	Thr	Val	Thr	Gly	Lys	Lys	Leu	Thr	Val	Thr	Cys	Ser	Gln	Asn
				35					40					45
Met	Asn	His	Glu	Tyr	Met	Ser	Trp	Tyr	Arg	Gln	Asp	Pro	Gly	Leu
				50					55					60
Gly	Leu	Arg	Gln	Ile	Tyr	Tyr	Ser	Met	Asn	Val	Glu	Val	Thr	Asp
				65					70					75
Lys	Gly	Asp	Val	Pro	Glu	Gly	Tyr	Lys	Val	Ser	Arg	Lys	Glu	Lys
				80					85					90
Arg	Asn	Phe	Pro	Leu	Ile	Leu	Glu	Ser	Pro	Ser	Pro	Asn	Gln	Thr
				95					100					105
Ser	Leu	Tyr	Phe	Cys	Ala	Ser	Ser							
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Lys	Gly	Gln	Thr	Val	Thr	Leu	Arg	Cys	Asp	Pro	Ile	Ser	Gly	His
				20					25					30
Asp	Asn	Leu	Tyr	Trp	Tyr	Arg	Arg	Val	Met	Gly	Lys	Glu	Ile	Lys
				35					40					45
Phe	Leu	Leu	His	Phe	Val	Lys	Glu	Ser	Lys	Gln	Asp	Glu	Ser	Gly
				50					55					60
Met	Pro	Asn	Asn	Arg	Phe	Leu	Ala	Glu	Arg	Thr	Gly	Gly	Thr	Tyr
				65					70					75
Ser	Thr	Leu	Lys	Val	Gln	Pro	Ala	Glu	Leu	Glu	Asp	Ser	Gly	Val
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Tyr	Phe	Cys	Ala	Ser	Ser									
				95										

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gtcctccagc tttgtggacc g                                21

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aagagggaaa cagccactct g                                21

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<223> reverse primer specific for TCR BV23 used in real-time PCR
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cagctccaag gagctcatgt t 21

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aaaacatctt gtcagagggg aa 22

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cagcgccctt gtgttgatg 19

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actgtgagtc tggccttg t 21

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acaacgggta acttgggtccc cgaa 24

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aagagagaga gctgggttcc actg 24

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ggagagtcga gttccatca 19

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Tyr Phe Cys Ala Ser Ser Gln Asp Ser Gly Gly Gly Gly Glu Gln
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 Phe Phe Gly Pro Gly
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<210> 76
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<213> *Artificial*
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 <400> 76

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<210> 77
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 specimen of RA patients
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Tyr	Phe	Cys	Ala	Ser	Ser	Arg	Leu	Gly	Gln	Gly	Tyr	Asn	Glu	Gln
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Phe	Phe	Gly	Pro	Gly										
				20										

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 specimen of RA patients
 <400> 78

tattttctgtg ccagcagccg actgggacag ggctacaatg agcagttctt cgggccagga 60

<210> 79
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 <212> PRT
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 specimen of RA patient
 <400> 79

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				5					10					15
Phe	Phe	Gly	Pro	Gly										
				20										

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<210> 81
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				5					10				15	
Phe	Phe	Gly	Pro	Gly										
				20										

<210> 82
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<210> 83
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 Phe Phe Gly Pro Gly
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<210> 84
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 <400> 85

Tyr Phe Cys Ala Ser Ser Leu Leu Gly Thr Val Ser Tyr Glu Gln
 5 10 15
 Phe Phe Gly Pro Gly
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 specimen of RA patients
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<223> CDR3 amino acid sequence of BV16 clonotype derived from ST
specimen of RA patient
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specimen of RA patients
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specimen of RA patient
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Phe Phe Gly Pro Gly
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specimen of RA patients
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 Phe Phe Gly Pro Gly
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<210> 94
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<220>
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 Phe Phe Gly Pro Gly
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<210> 96
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 Phe Phe Gly Pro Gly
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<210> 98
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<213> *Homo sapiens*
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 Gly Gln Gly

<210> 100
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<210> 101
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 specimen of RA patient
 <400> 101

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 Gly Gln Gly

<210> 102
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<212> PRT
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 specimen of RA patient
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<210> 104
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 specimen of RA patients
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<210> 105
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 specimen of RA patient
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 Gly Gln Gly

<210> 106
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 specimen of RA patients
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<210> 107
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 <223> CDR3 amino acid sequence of BV16 clonotype derived from ST specimen of RA patient
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 5 10 15
 Gly Gln Gly

<210> 108
 <211> 54
 <212> DNA
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<210> 109
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 5 10 15
 Gly Gln Gly

<210> 110
 <211> 54
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<210> 111
<211> 18
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<213> *Homo sapiens*
<220>
<221> Domain
<223> CDR3 amino acid sequence of BV16 clonotype derived from ST
specimen of RA patient
<400> 111

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5 10 15
Gly Gln Gly

<210> 112
<211> 54
<212> DNA
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specimen of RA patients
<400> 112

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<210> 113
<211> 20
<212> PRT
<213> *Homo sapiens*
<220>
<221> Domain
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specimen of RA patients
<400> 113

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5 10 15
Phe Phe Gly Pro Gly
20

<210> 114
<211> 63
<212> DNA
<213> *Artificial*
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<223> CDR3 nucleic acid sequence of BV14 clonotype derived from ST
specimen of RA patients
<400> 114

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<210> 115
<211> 22
<212> PRT
<213> *Homo sapiens*
<220>
<221> Domain
<223> CDR3 amino acid sequence of BV14 clonotype derived from ST
specimen of RA patients
<400> 115

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<210> 116
<211> 63
<212> DNA
<213> *Artificial*
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specimen of RA patients
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gga

<210> 117
<211> 20
<212> PRT
<213> *Homo sapiens*
<220>
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<223> CDR3 amino acid sequence of BV14 clonotype derived from ST
specimen of RA patients
<400> 117

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5 10 15
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<210> 118

<211> 63
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gga

<210> 119
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 <212> PRT
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 <223> CDR3 amino acid sequence of BV14 clonotype derived from ST specimen of RA patients
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<210> 120
 <211> 60
 <212> DNA
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<210> 121
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 <220>
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 <223> CDR3 amino acid sequence of BV14 clonotype derived from ST specimen of RA patients
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 5 10 15

Phe Phe Gly Pro Gly
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<210> 122
<211> 63
<212> DNA
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specimen of RA patients
<400> 122

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gga

<210> 123
<211> 21
<212> PRT
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<220>
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<223> CDR3 amino acid sequence of BV14 clonotype derived from ST
specimen of RA patients
<400> 123

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<210> 124
<211> 60
<212> DNA
<213> *Artificial*
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<223> CDR3 nucleic acid sequence of BV14 clonotype derived from ST
specimen of RA patients
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<210> 125
<211> 19
<212> PRT
<213> *Homo sapiens*
<220>
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<223> CDR3 amino acid sequence of BV14 clonotype derived from ST
specimen of RA patients
<400> 125

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5 10 15
Phe Gly Pro Gly

<210> 126
<211> 57
<212> DNA
<213> *Artificial*
<220>
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specimen of RA patients
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<210> 127
<211> 20
<212> PRT
<213> *Homo sapiens*
<220>
<221> Domain
<223> CDR3 amino acid sequence of BV14 clonotype derived from ST
specimen of RA patients
<400> 127

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5 10 15
Tyr Phe Gly Pro Gly
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<210> 128
<211> 60
<212> DNA
<213> *Artificial*
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specimen of RA patients
<400> 128

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<210> 129
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specimen of RA patients
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Tyr Phe Gly Pro Gly
      20

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            specimen of RA patients
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tacttctgtg ccagcagttc cgggggcagt ctgttctacg agcagttctt cgggccagga 60

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            specimen of RA patients
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Tyr Phe Gly Pro Gly
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<210> 133

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 Tyr Phe Gly Pro Gly
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<210> 134
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 Tyr Phe Gly Pro Gly
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<210> 136
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 <400> 137

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 5 10 15
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<210> 138
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<210> 139
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 Phe Gly Pro Gly

<210> 140
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<210> 141
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specimen of RA patients
<400> 141

Tyr Phe Cys Ala Ser Ser Leu Ser Phe Arg Leu Asp Tyr Glu Gln
5 10 15
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20

<210> 142
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specimen of RA patients
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<210> 143
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specimen of RA patients
<400> 143

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5 10 15
Tyr Phe Gly Pro Gly
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<210> 144
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<210> 145
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Tyr	Phe	Gly	Pro	Gly										
				20										

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<210> 147
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 <212> PRT
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 <220>
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 specimen of RA patients
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Tyr	Phe	Cys	Ala	Ser	Ser	Pro	Arg	Leu	Ala	Gly	Asp	Lys	Glu	Gln
				5					10				15	
Tyr	Phe	Gly	Pro	Gly										
				20										

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5 10 15
Leu Gly Ser Gly

<210> 152

<211> 57

<212> DNA

<213> *Artificial*

<220>

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<223> CDR3 nucleic acid sequence of BV14 clonotype derived from ST specimen of RA patients

<400> 152

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<210> 153

<211> 18

<212> PRT

<213> *Homo sapiens*

<220>

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<223> CDR3 amino acid sequence of BV14 clonotype derived from ST specimen of RA patients

<400> 153

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<210> 154

<211> 53

<212> DNA

<213> *Artificial*

<220>

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<400> 154

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<210> 155

<211> 19

<212> PRT

<210> 159
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 specimen of RA patients
 <400> 159

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 5 10 15
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<210> 160
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<210> 161
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 specimen of RA patients
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 5 10 15
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<210> 162
 <211> 53
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<223> CDR3 nucleic acid sequence of BV14 clonotype derived from ST
specimen of RA patients
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<210> 163
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<220>
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specimen of RA patients
<400> 163

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5 10 15
Gly Gln Gly

<210> 164
<211> 54
<212> DNA
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<220>
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specimen of RA patients
<400> 164

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<210> 165
<211> 18
<212> PRT
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<220>
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<223> CDR3 amino acid sequence of BV14 clonotype derived from ST
specimen of RA patients
<400> 165

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5 10 15
Gly Gln Gly

<210> 166
<211> 54

